DEPARTMENT OF THE AIR FORCE
Headquarters Air Force Technical Applications Center
Patrick AFB FL 32925-6001

CENTER REGULATION 55-2
Volume V
2 November 1987

SPECIFIC STATION REQUIREMENTS FOR DETACHMENT 313

This regulation establishes the procedures for station unique operations and analysis. It applies to all active duty Air Force members assigned to the station. Personnel who violate the specific prohibitions and requirements of this regulation may be prosecuted under the Uniform Code of Military Justice (UCMJ).

Distribution limited to DoD and DoD contractors only; to protect information and technical data which advance the state-of-the-art or describe new technology in an area of significant or potentially significant military application, 2 November 1987. Other requests shall be referred to HQ/DOSB.

1. Station Designator. The station designator for Detachment 313 is ZEBU.

2. Timing Standard. MSF.

3. Routine Calibrations. Perform SPS and LPS calibrations sequentially commencing immediately after 0900Z.

4. Edit Tape registration numbers are 5500-5599.

5. Training Outage. Outage authorized in Volume I is granted for Wednesday of each week from 1200Z through 1500Z.

6. Special Data Reports. Submit special data reports in accordance with CENR 55-2, Volume I. In addition, submit a special data report for all teleseismic signals received with an azimuth between 140 and 170 degrees. Overlays are not available.

7. Summation Channel. Individual vertical array channel(s) may be manually lined out of analog summation(s) (but not from processed data) when cultural or wind noise increases trace background on the individual channel(s) to more than twice the background average of other array channels. Monitor individual channels lined out because of high background to determine when the background has subsided enough to return the channels to summation(s).

8. SPS Develocorder Presentations:

a. Primary Develocorder Presentations:

TRACE	DATA	MAG
1	SZ1BP36013	2000
2	SZ1BP06013	2000
3	SZ1BP12013	2000
4	SZ1BP18013	2000
5	SZ1BP24013	2000
6	SZ1BP30013	2000
7	SZ1BP00099	2000
8	SZ1I65L	10
9	SZ1SA	1000
10	SZ1SB	1000

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TRACE	DATA	MAG
11	SZ1SC	1000
12	SZ1I65H	250
13	SN1I65H	250
14	SE1I65H	250

NOTE: Partial summations contain the following contributors; SZ1SA - SZ1I01, 02, 03, 04, 05, 06, and 07. SZ1SB - SZ1I01, 04, 06, 07, 12, and 18. SZ1SC - SZ1I01, 02, 05, 06, 09 and 15.

b. Secondary Develocorder Presentations:

TRACE	DATA	MAG
1	SZ1I19	500
2	SZ1I10	500
3	SZ1I16	500
4	SZ1I14 *	500
5	SZ1SA	1000
6	SZ1BP02114	2000
7	SZ1BP03017	2000
8	SZ1BP05116	2000
9	SZ1BP05518	2000
10	SZ1BP07816	2000
11	SZ1BP15619	2000
12	SZ1I65L	5
13	SZ1I65M	50
14	SN1I65M	50
15	SE1I65M	50

* use Trace 4 whenever a spare trace is required.

9. LPS Develocorder Presentation:

TRACE	DATA	MAG
1	LZ1I65M	10K
2	LN1I65M	10K
3	LE1I65M	10K
4	LZ1I65H	*
5	LN1I65H	*
6	LE1I65H	*
7	LZ1I65L	1K

* MAG Tolerances are listed in CENR 55-2, Volume I.

10. STPR Designator/Channel Identifier Cross Reference:

STPR DESIGNATOR	CHANNEL ID	INPUT SENSITIVITY
SPRW01	SZ1I01	4.88*
SPRW02	SZ1I02	4.88*
SPRW03	SZ1I03	4.88*
SPRW04	SZ1I04	4.88*
SPRW05	SZ1I05	4.88*
SPRW06	SZ1I06	4.88*
SPRW07	SZ1I07	4.88*
SPRW08	SZ1I08	4.88*
SPRW09	SZ1I09	4.88*
SPRW10	SZ1I10	4.88*
SPRW11	SZ1I11	4.88*
SPRW12	SZ1I12	4.88*
SPRW13	SZ1I13	4.88*
SPRW14	SZ1I14	4.88*
SPRW15	SZ1I15	4.88*
SPRW16	SZ1I16	4.88*
SPRW17	SZ1I17	4.88*
SPRW18	SZ1I18	4.88*
SPRW19	SZ1I19	4.88*
SPRW20	SZ1I65H	4.88*
SPRW21	SN1I65H	4.88*
SPRW22	SE1I65H	4.88*
SPRW23	SZ1I65L	0.0976*
SPRW24	SN1I65L	0.0976*
SPRW25	SE1I65L	0.0976*
SPRW26	SZ1SA	N/A
SPRW27	SZ1SB	N/A
SPRW28	SZ1SC	N/A
LPSC1Z	LZ1I65H	10+
LPSC1N	LN1I65H	10+
LPSC1E	LE1I65H	10+
LPSC2Z	LZ1I65L	1.0+
LPSC2N	LN1I65L	1.0+
LPSC2E	LE1I65L	1.0+

STPR DESIGNATOR	CHANNEL ID	INPUT SENSITIVITY
SPL360	SZ1BP36013	N/A
SPL060	SZ1BP06013	N/A
SPL120	SZ1BP12013	N/A
SPL180	SZ1BP18013	N/A
SPL240	SZ1BP24013	N/A
SPL300	SZ1BP30013	N/A
SPZ000	SZ1BP00099	N/A
SPN021	SZ1BP02114	N/A
SPR030	SZ1BP03017	N/A
SPQ051	SZ1BP05116	N/A
SPS055	SZ1BP05518	N/A
SPQ078	SZ1BP07816	N/A
SPD137	SZ1BP13709	N/A
SPT156	SZ1BP15619	N/A
SPV254	SZ1BP25421	N/A
SPY280	SZ1BP28026	N/A
LPH36Z	LZ1BP3603.5	N/A

* - Volts peak-to-peak for a 100 millimicron equivalent DF as measured at the output of the SCC or KS36000 filter.

+ - Volts peak-to-peak for a 10 micron equivalent DF as measured at the output of the KS36000 filter.

11. STPR Frequency Response Voltages and Normalizing Factors:

a. Short Period:

FREQUENCY	STPR VOLTAGE UAS	STPR VOLTAGE KS36000	NORMALIZING FACTOR UAS AND KS36000
*1.0	1.708	.854	1
0.5	1.708	.854	1
0.8	1.708	.854	1
1.5	1.708	.854	1
2.0	1.708	.854	1
2.5	1.708	.854	1
3.0	1.708	.854	1
4.0	1.708	.854	1

b. Long Period:

FREQUENCY	STPR VOLTAGE	NORMALIZING FACTOR
*0.0400	0.666	1
0.1000	4.662	0.1429
0.0667	0.666	1
0.0500	0.666	1
0.0333	0.666	1
0.0250	0.666	1
0.0200	0.666	1

* - Reference Frequency

NOTE: To normalize the Frequency Response, divide the return voltage of each frequency by the return voltage at the reference frequency, then multiply by the normalizing factor. The results can then be compared with the values listed in CENR 55-2, Vol I to determine if they are within tolerances.

12. STPR CPU Configuration Parameters:

a. CPU 1:
CONFIGURATION IDENTIFICATION = Cxxxx-1LS
OPERATE1 IDENTIFICATION = OPERATE1
SITE IDENTIFICATION = 313
LP DATA AND INSTRUMENT TYPE (A,31,36) = A
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19
NUMBER OF SHORT PERIOD OTHER CHANNELS = 9
NUMBER OF LONG PERIOD ARRAY CHANNELS = 6
NUMBER OF LONG PERIOD OTHER CHANNELS = 0
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 1
SHORT PERIOD FREQUENCY FILTER LENGTH = 99
LONG PERIOD FREQUENCY FILTER LENGTH = 1
AMOUNT OF SHORT PERIOD TIME DELAY REQUIRED = 0
AMOUNT OF LONG PERIOD TIME DELAY REQUIRED = 0
SP COORDINATES:
0,0,0
1,1.854,-0.556
2,3.281,0.000
3,3.138,-1.297
4,2.282,-2.224
5,-0.143,-0.927
6,1.284,-0.185
7,1.426,1.297
8,3.708,1.668
9,5.848,0.185
10,5.705,-1.853
11,3.994,-3.150
12,1.997,-4.077
13,0.000,-2.780
14,-1.949,-2.224
15,-2.853,-0.741
16,-2.425,1.483
17,-0.713,2.965
18,1.569,3.706
19,5.848,2.780
LP COORDINATES:
0,0,0
1,0,0,C
2,0,0,C

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SP FREQUENCY FILTER PARAMETERS:
50
0.0007,0.0005,0.0002,-.0001,-.0004,-.0007,-.0010,-.0012,-.0015,-.0016
-.0017,-.0017,-.0016,-.0014,-.0011,-.0007,-.0001,0.0005,0.0011,0.0018
0.0024,0.0031,0.0036,0.0040,0.0042,0.0042,0.0040,0.0035,0.0026,0.0014
-.0001,-.0020,-.0043,-.0068,-.0097,-.0129,-.0163,-.0198,-.0235,-.0272
-.0308,-.0343,-.0377,-.0407,-.0434,-.0457,-.0476,-.0490,-.0498,0.9499
-.0498,-.0490,-,0476,-.0457,-.0434,-.0407,-.0377,-.0343,-.0308,-.0272
-.0235,-.0198,-.0163,-.0129,-.0097,-.0068,-.0043,-.0020,-.0001,0.0014
0.0026,0.0035,0.0040,0.0042,0.0042,0.0040,0.0036,0.0031,0.0024,0.0018
0.0011,0.0005,-.0001,-.0007,-.0011,-.0014,-.0016,-.0017,-.0017,-.0016
-.0015,-.0012,-.0010,-.0007,-.0004,-.0001,0.0002,0.0005,0.0007
LP FREQUENCY FILTER PARAMETERS:
0
0.9999
SP BEAM PARAMETERS:
SPL360,0,000,13.0,B
SPL060,0,060,13.0,B
SPL120,0,120,13.0,B
SPL180,0,180,13.0,B
SPL240,0,240,13.0,B
SPL300,0,300,13.0,B
SPZ000,0,0,0,B
SPN021,0,021,13.8,B
SPR030,0,030,16.9,B
SPQ051,0,051,15.7,B
SPS055,0,055,17.6,B
SPQ078,0,078,15.7,B
SPD137,0,137,8.5,B
SPT156,0,156,18.5,B
SPV254,0,254,21.1,B
SPY280,0,280,25.6,B
LP BEAM PARAMETERS:
LPH36Z,1,000,3.5,B
SP PROCESSING DELAY = 60
LP PROCESSING DELAY = 1
SECONDS PER RECORD = 3
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b. CPU 2:

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CONFIGURATION IDENTIFICATION = Cxxxx-2LS
OPERATE2 IDENTIFICATION = OPERATE2
SITE IDENTIFICATION = 313
LP DATA AND INSTRUMENT TYPE (A,31,36) = A
NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19
NUMBER OF SHORT PERIOD OTHER CHANNELS = 9
NUMBER OF LONG PERIOD ARRAY CHANNELS = 6
NUMBER OF LONG PERIOD OTHER CHANNELS = 0
NUMBER OF SHORT PERIOD PROCESSES = 16
NUMBER OF LONG PERIOD PROCESSES = 1
NO OF SP CHANNELS TO BE TRANSMITTED VIA HSM = 0
NO OF LP CHANNELS TO BE TRANSMITTED VIA HSM = 0
NUMBER OF CONTACT SENSOR MONITORS = 4
NUMBER OF A/D CHANNEL MONITORS = 1
AMOUNT OF SP EDIT TIME DELAY REQUIRED = 0
AMOUNT OF LP EDIT TIME DELAY REQUIRED = 0
SP COORDINATES:
0,0,0
1,1.854,-0.556
2,3.281,0.000
3,3.138,-1.297
4,2.282,-2.224
5,-0.143,-0.927
6,1.284,-0.185
7,1.426,1.297
8,3.708,1.668
9,5.848,0.185
10,5.705,-1.853
11,3.994,-3.150
12,1.997,-4.077
13,0.000,-2.780
14,-1.949,-2.224
```

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15,-2.853,-0.741
16,-2.425,1.483
17,-0.713,2.965
18,1.569,3.706
19,5.848,2.780
LP COORDINATES:
0,0,0
1,0,0,C
2,0,0,C
SP CALIBRATION DEFAULT PARAMETERS:
0.833,1.000,10,1,090000,0.9,1.1,2.928,8
1.0,1.708
0.5,1.708
0.8,1.708
1.5,1.708
2.0,1.708
2.5,1.708
3.0,1.708
4.0,1.708
LP CALIBRATION DEFAULT PARAMETERS:
1.333,0.04,10,1,093000,0.9,1.1,3.750,7,3
0.040,0.666
0.100,4.662
0.067,0.666
0.050,0.666
0.033,0.666
0.025,0.666
0.020,0.666
SP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:
1,1
1,2
1,3
1,4
1,5
1,6
1,7
1,8
1,9
1,10
1,11
1,12
1,13
1,14
1,15
1,16
1,17
1,18
1,19
1,20
1,20
1,20
1,20
1,20
1,20
1,21
1,21
1,21
LP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:
1,1
1,1
1,1
1,1
1,1
1,1
SP BEAM PARAMETERS:
SPL360,0,000,13.0,B
SPL060,0,060,13.0,B
SPL120,0,120,13.0,B
SPL180,0,180,13.0,B
SPL240,0,240,13.0,B
SPL300,0,300,13.0,B
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SPZ000,0,0,0,B
SPN021,0,021,13.8,B
SPR030,0,030,16.9,B
SPQ051,0,051,15.7,B
SPS055,0,055,17.6,B
SPQ078,0,078,15.7,B
SPD137,0,137,8.5,B
SPT156,0,156,18.5,B
SPV254,0,254,21.1,B
SPY280,0,280,25.6,B
LP BEAM PARAMETERS:
LPH36Z,1,000,3.5,B
RELAY IDENTIFIERS AND NORMAL STATUS FOR EACH CONTACT SENSOR MONITOR:
ACFAIL,1
BATTLO,0
RDOOR,1
MTDOOR,0
IDENTIFIERS AND LIMITS FOR EACH A/D CHANNEL MONITOR:
LNPOWR,5.4,6.6
SECONDS PER RECORD = 1
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UFFICIAL

SUMMARY OF CHANGES
Updated channel data tables and processes to incorporate expanded SP array. Changed Develocorder displays.